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1 Introduction

One of the key deliverables for the CGS Europe project is the continuation of the annual open forum in Venice, a tradition that started under the umbrella of the CO2GeoNet Network of Excellence in 2006. This year, 2012, the 7th edition was organised from April 17-19 at San Servolo Island. The first two days were dedicated to providing an overview of the European research landscape in the geological storage of CO₂ in Europe, with overview presentations of the aims, key results and status of most of the current large EU projects on this subject.

The third day was dedicated to a knowledge sharing workshop organized by CGS Europe with a similar purpose to the Open Forum, but focused on national research programs throughout Europe. Results of this workshop (a deliverable of the CGS Europe project in itself) are described in a separate report (D4.4).



The Open Forum was prepared and organised by CO2GeoNet-TNO in cooperation with the executive committee of CO2GeoNet and with additional support specifically of CO2GeoNet-BRGM and CO2GeoNet-OGS for many practical issues including the on-site organisation and arrangements. Moreover, several other project partners were actively involved in form of conference presentations or chairing of conference sessions.

A summary of the main observations and conclusions from the first two days is provided in chapter 3. It was prepared for public dissemination purposes and is downloadable from the CO2GeoNet website. More detailed information on the individual subjects can be found in the presentations available through the CO2GeoNet website: www.co2geonet.com/openforum2012_presentations.

2 Scope of the 7th annual open forum in Venice

The CO2GeoNet Open Forum offers a unique opportunity for stakeholders and major players in the CCS arena to meet and interact directly with Europe's largest group of researchers on CO₂ geological storage. The involvement of the CGS Europe project: the "Pan-European Coordination Action on the Geological Storage of CO₂" brings together the CO2GeoNet Association and 21 other research institutes all with CO₂ storage research experience, thus covering 28 countries (24 European Member States plus 4 Associated Countries).

The aim of this 7th annual open forum on "EU research programmes and international research cooperation" was essentially to provide information on:

- Recent CO2GeoNet and CGS Europe activities
- European CCS initiatives
- Scientific results from major European projects
- International research and collaboration
- Panel discussions

To achieve this goal it was considered important to create an open atmosphere where participants could discuss freely. To create such an open environment allowing particularly the various stakeholders such as regulators, policy makers, industry and researchers to exchange ideas and share points of view, different timeslots were allocated throughout the program to panel discussions and group discussions.

3 Summary of the open forum

NOTE: The following part of the report was prepared as a stand-alone summary for communication purposes, and is downloadable from the cO2GeoNet website:

http://www.co2geonet.com/UserFiles/file/Open%20Forum%202012/summary_CO2GEONET_2012.pdf

The 7th CO2GeoNet Open Forum took place in Venice from April 17-19 with a record attendance of 140 participants from research organizations, industry, funding agencies and regulatory bodies, representing more than 30 countries. An intensive two-day programme demonstrated the wide range of active research on the geological storage of CO₂ throughout Europe, and included much lively and valuable debate. We were very happy to have representatives of the European Commission present at our forum.

The central theme of this year's forum was the European research landscape on the geological storage of CO₂, with overview presentations of the aims, key results and status of most of the current large EU projects on this subject. These were arranged in a logical flow from site characterization (Mustang, SiteChar), to developing shared transport and storage infrastructure (COMET) and monitoring (CO2ReMoVe, CO2FieldLab), to studying the impacts of CO₂ on ecosystems (RISCS, ECO2) and, finally, to projects on site abandonment and the long term fate of CO₂ in geological storage reservoirs (CO2CARE, ULTimateCO2, PANACEA).

There has been a clear trend towards more applied research over the last few years, with pilot and demonstration sites, as well as some of the newly envisaged large-scale storage sites playing an increasingly key role. A number of projects aim to provide input to regulators based on experiences at the demonstration and pilot sites by performing so-called “dry runs” in terms of license applications in order to test existing or proposed procedures. These sites often connect a large group of researchers, and it was good to hear about a few sites outside of Europe, both in Japan and Canada, with an invitation for cooperation in the Aquistore project in Canada.

For CO2GeoNet, it was particularly rewarding to see, that many of the current EU projects nowadays also include studies on natural CO₂ reservoirs and vents, a subject in which CO2GeoNet played a pioneering role from the start.

Besides the more technical presentations on the EU projects, sessions were also dedicated to presenting European initiatives aimed at strengthening research, innovation and demonstration, and at promoting international collaboration on CO₂ storage. The EU perspectives of both DG Climate Action and DG Research clearly showed the agendas of respectively the NER 300 demonstration projects and future research under the umbrella of the ‘Horizon 2020’ program that will follow Framework 7. In addition, key European and global organizations concerned with CCS, including the ZEP, CSLF, IEAGHG, GCCSI, EERA and ECCSEL described their particular roles in this dynamic landscape.

The forum ended with a reflection by the EC Scientific Officer and the advisory board of CGS Europe (consisting of representatives of the GCCSI, IEAGHG, ZEP, the French ministry and a German NGO), followed by an open and active discussion. One key observation was that the European research landscape can be very confusing, even to active researchers. There are a large number of projects with some degree of topic overlap, and it was felt that there would be a significant benefit in ‘road mapping’ all these projects, identifying “who does what” thereby facilitating co-operation. This workshop was a first step towards such a mapping exercise, offering the opportunity to the audience both to hear about ongoing research and also to directly interact with the various coordinators. The suggestion was also made, that both CO2GeoNet and CGS Europe should play a prominent role in the detailed mapping of the “research landscape” and in providing further opportunities for integration and coordination.

Finally, the discussion moved towards a very lively debate on the role of scientists in the CC(U)S (Carbon Capture Use and Storage) debate. Opinions varied from researchers being more proactive in

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advocating CC(U)S more clearly to the broader public to the other end of the spectrum with researchers staying in a more traditional role of answering questions “objectively” when asked for by the public or stakeholders. This discussion brought up follow-up questions like “How can we make sure that we remain to be seen independent as a research community?” and “What is the role of industry funding in relation to an objective voice?”. All participants seemed to agree that transparency is at least a key element in this discussion, but opinions varied as to whether industry funding should be used for sensitive subjects like risk evaluations of sites.

Overall the organizers look back on two intense, but interesting days with lots of discussions and interactions in an open atmosphere. The latter was also proven by the presence of the press during most of the workshop. This resulted already in 3 newspaper articles in amongst others the French newspaper “Le Monde”.

Immediately after the two-day forum a knowledge sharing workshop was organized by CGS Europe with a similar purpose as the Open Forum, but focused on national research programs throughout Europe.

We thank all the presenters and participants and hope to see you again next year in Venice.



Panel discussion on ‘CO2GeoNet/CGS Europe’s role as the European scientific body on CO2 storage’, chaired by Nick Riley (CO2GeoNet-BGS) and Isabelle Czernichowski-Lauriol (CO2GeoNet-BRGM), with CGS Europe Advisory Body members and the EC Scientific Officer.

4 The program



7th CO₂ GeoNet Open Forum

April 17-19, 2012

Venice, San Servolo Island, Italy

CO₂ GeoNet - a resource for Europe
providing scientific support for the
geological storage of CO₂

CGS Europe - a coordination action across
28 Countries

A forum - to make scientific research and
researchers available to stakeholders



AGENDA

Welcome cocktail San Servolo Island - Room Basaglia - Monday April 16 from 18:30

Tuesday April 17

Session 1 - Welcome by CO₂GeoNet and CGS Europe

Chair: Sergio Persoglia, CO₂GeoNet-OGS

9.00 Welcome

Sergio Persoglia, CO₂GeoNet-OGS

9.05 Objectives of the 7th CO₂GeoNet Open Forum

Rob Arts, CO₂GeoNet-TNO

9.20 CO₂GeoNet and CGS Europe: what it is all about

Isabelle Czernichowski-Lauriol, CO₂GeoNet-BRGM

9.40 CO₂GeoNet strategy 2012-2014

Dominique Durand, CO₂GeoNet-IRIS

10.00 Coffee break

Session 2 - European initiatives towards research, innovation and demonstration

Chair: Isabelle Czernichowski-Lauriol, CO₂GeoNet-BRGM

10.30 European Commission initiatives on CCS: update on the implementation of the NER 300 programme and the Directive on the geological storage of CO₂

Martina Doppelhammer, EC DG Climate Action

10.50 ZEP recent actions related to CO₂ storage

Niels Peter Christensen, Vattenfall, Co-lead of ZEP Technology Task Force

11.10 ECCSEL - European Carbon dioxide Capture and Storage laboratory Infrastructure

Sverre Quale, NTNU-ECCSEL Project Director

11.25 EERA CCS Joint Programme

Andreas Ehinger, CO₂GeoNet-IFPEN, Coordinator of EERA-CCS

11.40 General discussion

Session 3 - Major research results and plans from European projects

Chairs: Niels Poulsen, CO₂GeoNet-GEUS, Hervé Quinquis, CO₂GeoNet-IFPEN

Franz May, CO₂GeoNet-BGR

3.1 Site Characterisation

12.00 MUSTANG - A Large-Scale Integrating Project for Developing Methodologies for Quantifying Saline Aquifers for Geological Storage of CO₂

Auli Niemi, Uppsala University

12.40 Lunch

3.1 Site Characterisation (continued)

- 14.00 SiteChar - site characterisation workflows for CO₂ storage in Europe**
 Florence Delprat-Jannaud and Jonathan Pearce, CO₂GeoNet-IFPEN and CO₂GeoNet-BGS

3.2 Developing shared transport and storage infrastructure

- 14.40 COMET - Integrated infrastructure for CO₂ transport and storage in the west MEdiTerranean**
 Dulce Boavida, LNEG

- 15.00 General discussion on site characterisation, transport and storage infrastructure**

15.20 Coffee break

3.3 Monitoring

- 15.50 CO₂ReMoVe - Monitoring and verification of CO₂ geological storage**
 Rob Arts, CO₂GeoNet-TNO

- 16.30 CO₂FieldLab - CO₂ Field Laboratory for Monitoring & Safety Assessment**
 Menno Dillen, CO₂GeoNet-SINTEF

- 16.50 General discussion on monitoring**

Session 4 - International research collaboration

Chair: Nick Riley, CO₂GeoNet-BGS

- 17.10 Round robin "GaMin'11": An international interlab comparison of geochemical batch experiments to study CO₂-fluid-rock interactions**
 Christian Ostertag-Henning, CO₂GeoNet-BGR

- 17.30 The Sim-SEQ Initiative: A Model Comparison Study for Geologic CO₂ Storage**
 Sumit Mukhopadhyay, LBNL

- 17.50 General discussion on possible cooperation**

18.00 End of day 1

20.00 Gala dinner

Wednesday April 18

- 09:00 Messages**
 Sergio Persoglia, CO₂GeoNet-OGS

Session 5 - Promoting International collaboration on CO₂ storage

Chairs: Samuela Vercelli, CO₂GeoNet-URS, Gary Kirby, CO₂GeoNet-BGS

- 09.05 European Commission initiatives on CCS: update from the research perspective**
 Vassilios Kougionas, EC DG Research

09:25	IEAGHG activities Ameena Camps, IEAGHG	
09:40	CSLF activities Trygve Uttheim Riis, CSLF technical group chair	
09:55	GCCSI activities Derek Taylor, GCCSI-European representative	
10:10	General discussion on international collaboration and EU research	
10:30	<i>Coffee break</i>	
Session 6	Major research results and plans from European projects (continuation of session 3) Chairs: Dominique Durand, CO ₂ GeoNet-IRIS, Rob Arts, CO ₂ GeoNet-TNO	
6.1	Ecosystem impacts	
11:00	RISCS - Research into Impacts and Safety in CO₂ Storage Dave Jones, CO ₂ GeoNet-BGS	
11:40	ECO2 - Sub-seabed CO₂ Storage: Impact on Marine Ecosystems Klaus Wallman, Geomar	
12:10	General discussion on impacts	
12:30	<i>Lunch</i>	
6.2	Site abandonment and long term fate of CO₂	
14:00	CO₂CARE - CO₂ Site Closure Assessment REsearch Mario Wipki, GFZ	
14:40	ULTimateCO₂ - Understanding the Long-Term fate of geologically stored CO₂ Pascal Audigane, CO ₂ GeoNet-BRGM	
14:55	PANACEA - Predicting and monitoring the long-term behaviour of CO₂ injected in deep geological formations Jacob Bensabat, EWRE	
15:10	General discussion on abandonment	
15:30	<i>Coffee Break</i>	
Session 7	Focus on some research and demonstration activities worldwide Chair: Sergio Persoglia, CO ₂ GeoNet-OGS	
16:00	The Aquistore Project, Canada Rob Arts (on behalf of Malcolm Wilson), CO ₂ GeoNet-TNO	
16:20	Research activities in Japan Koichi Takizawa, RITE	

Session 8 - Panel discussion - CO₂GeoNet/CGS Europe's role as the European scientific body on CO₂ storage

Chair: Nick Riley, CO₂GeoNet-BGS,
Isabelle Czernichowski-Lauriol, CO₂GeoNet-BRGM

16:40 Highlights and viewpoints expressed by the Advisory Body members and the EC

Ameena Camps - IEAGHG, Niels Peter Christensen - ETP ZEP,
Lionel Perrette - DGEC, Derek Taylor - GCCSI, Manfred Treber - Germanwatch,
Vassilios Kougionas - EC DG Research

17:10 General discussion

18:00 End of day 2

Thursday April 19

3rd CGS EUROPE KNOWLEDGE-SHARING WORKSHOP: NATIONAL RESEARCH PROGRAMMES

Session 1 - National Funding and national CGS research programmes in CGS Europe countries

Chair: Roberto Martinez, S-IGME

9.00 Introduction

Alla Shogenova, TTU GI

9.05 Overview of the national research programmes and funding in CGS Europe countries

Roberto Martinez, S-IGME, Heike Rütters, CO₂GeoNet-BGR

9.25 National research on CO₂ storage in France

Isabelle Czernichowski-Lauriol, CCS programme manager, National Agency for Research (ANR)

9.40 GEOTECHNOLOGIEN programme, Germany

Ute Münch, Head of Coordination Office "GEOTECHNOLOGIEN", GFZ

9.55 CATO-2 programme, The Netherlands

Jan Brouwer, CATO-2 Programme Director, CO₂GeoNet-TNO

10.10 CO₂ storage activities in the CLIMIT programme, Norway

Trygve Utheim Riis, The Research Council of Norway

10.25 Funding of national and Nordic projects in Denmark (NORDICCS, AQUADK, EOR, Skagerrak project)

Karen Anthonsen & Niels Poulsen, CO₂GeoNet-GEUS

10.40 CCS Programme, Finland

Nicklas Nordbäck, GTK

10.55 Panel discussion: Priorities of national programmes and prospects for bilateral and regional collaboration

11.15 Coffee Break

Session 2a - Modelling in national research and demo/pilot projects	
Chair: Kristin M. Flornes, CO ₂ GeoNet-IRIS	
11.45	Overview of the national research on modelling in CGS Europe countries Alla Shogenova, TTU GI
11.55	Modelling at the pilot site of Hontomín, Spain Ciuden
12.15	Modelling in case studies, Poland Bartosz Papiernik, AGH-UST
12.35	<i>Lunch</i>
Session 2b - Modelling in national research and demo/pilot projects	
Chair: Brian McConnell, GSI	
14.00	Numerical CO₂ Laboratory Kristin M. Flornes, CO ₂ GeoNet-IRIS
14.20	CO₂-Vadose: 3D modelling of a CO₂ migration across natural carbonates Philippe Delaplace, CO ₂ GeoNet-IFPEN
14.40	Modelling activities at the BIGCCS International CCS Research Centre in Norway CO ₂ GeoNet-SINTEF
15.00	The Getica CCS Demo Project, Romania Constantin Sava, GEOECOMAR
15.20	CO₂ storage at an industrial scale: a quick methodology to optimize the site location from basin scale simulations Florence Delprat-Jannaud, CO ₂ GeoNet-IFPEN
15.40	<i>Coffee Break</i>
Session 3 – Other national research	
Chair: Saulius Sliaupa, NRC	
16.10	COORAL - CO₂ purity for capture and storage (COORETEC research project) Heike Rütters, CO ₂ GeoNet-BGR
16.30	SENTINELLE - Monitoring of geosphere, biosphere and atmosphere at the Lacq-Rousse pilot site, France Philippe de Donato, INPL
16.50	The final results of the Slovakian CO₂ storage project: quantitative parameters of selected rocks suitable for CO₂ storage L'udovít Kucharič, Martin Radvanec, SGUDS
17.10	Joint GSI-BGS study of CO₂ storage potential in the Irish Sea Brian McConnell, GSI
17.30	Discussion and conclusions Alla Shogenova, TTU GI
18:00	<i>End of day 3</i>



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Sponsors



San Servolo Island



CO₂GeoNet **The European Network of Excellence** **on the Geological Storage of CO₂**

CO₂GeoNet is the European scientific body on CO₂ geological storage. It currently comprises 13 public research institutes from 7 European countries, and brings together over 300 researchers with the multidisciplinary expertise needed to address all aspects of CO₂ storage. With activities encompassing joint research, training, scientific advice, information and communication, CO₂GeoNet has a valuable and independent role to play in enabling the efficient and safe geological storage of CO₂. CO₂GeoNet was created in 2004 as a Network of Excellence supported by the EC FP6 programme for 5 years. In 2008, the Network became a non-profit association under French law.

www.co2geonet.com

CO₂GeoNet members: BGR (Germany); BGS (UK); BRGM (France); GEUS (Denmark); HWU (UK); IFPEN (France); IMPERIAL (UK); IRIS (Norway); NIVA (Norway); OGS (Italy); SPR Sintef (Norway); TNO (Netherlands); URS (Italy)



CGS Europe **The Pan-European Coordination Action** **on the Geological Storage of CO₂**

CGS Europe is a networking project that pools together the expertise of 34 key research institutes in the area of CO₂ geological storage across 28 countries (24 European Member States and 4 Associated Countries). Funded by the EC FP7 programme, it builds upon the networking and integration experience of CO₂GeoNet with the ultimate goal of providing an independent, scientific, pan-European platform and reference source where national, European and international experts, institutes and regulators can access the most up-to-date results of CO₂ storage-related studies, share experiences and good practices, discuss the implementation of regulations, identify research needs to face upcoming challenges, and build new projects.

www.cgseurope.net

CGS Europe partners (in addition to the 13 CO₂GeoNet members mentioned above): CzGS (Czech Republic); ELGI (Hungary); GBA (Austria); GEOECOMAR (Romania); GEO-INZ (Slovenia); G-IGME (Greece); GSI (Ireland); GTC (Lithuania); GTK (Finland); LEGMC (Latvia); LNEG (Portugal); METU-PAL (Turkey); PGI-NRI (Poland); RBINS-GSB (Belgium); SGU (Sweden); SGUDS (Slovakia); S-IGME (Spain); SU (Bulgaria); TTUGI (Estonia); UB (Serbia); UNIZG-RGNF

5 List of participants

Name	Surname	Organization	Countries
Teresa	Amaro	CO2GeoNet-NIVA	Norway
Karen Lyng	Anthonsen	CO2GeoNet-GEUS	Denmark
Rob	Arts	CO2GeoNet-TNO	Netherlands
Pascal	Audigane	CO2GeoNet-BRGM	France
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Jacob	Bensabat	EWRE Ltd.	Israel
Aina	Berg	CO2GeoNet-IRIS	Norway
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Maryna	Bezкровна	Donetsk National University	Ukraine
Sabina	Bigi	CO2GeoNet-URS	Italy
Anna	Brüstle	Geological Survey Austria	Austria
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Daniel	Burt	Suncor Energy Inc.	Canada
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Ameena	Camps	IEAGHG	UK
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Pompilio	Caramuscio	Enel Ingegneria e Innovazione	Italy
Katarína	Čechovská	SGUDS	Slovakia
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Sevket	Durucan	CO2GeoNet-IMPERIAL	UK
Andreas	Ehinger	CO2GeoNet-IFPEN / EERA-CCS	France
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Kristin	Flornes	CO2GeoNet-IRIS	Norway
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Silvana	Iacobellis	Enel Ingegneria e Ricerca	Italy
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Snezana	Komatina Petrovic	AGES	Serbia
Anna	Korre	CO2GeoNet-IMPERIAL	UK
Aleksandra	Koteras	Central Mining Institute	Poland
Vassilios	Kougionas	European Commission	Belgium
Ludovit	Kucharic	SGUDS	Slovakia
Zeljka	Kurelec	UNIZG-RGNF	Croatia
Astri	Kvassnes	CO2GeoNet-NIVA	Norway
Valéry	Laramée	Journal de l'Environnement	France
Salvatore	Lombardi	CO2GeoNet-URS	Italy
Jorge	Loredo	University of Oviedo	Spain
Matija	Malnar	UNIZG-RGNF	Croatia
Roberto	Martinez	S-IGME	Spain
Franz	May	CO2GeoNet-BGR	Germany
Brian	Mcconnell	GSI	Ireland
Barbara	Merson	CO2GeoNet-OGS	Italy
Raffaella	Monga	ENI SpA	Italy
Ute	Münch	GEOTECHNOLOGIEN	Germany
Filip	Neele	CO2GeoNet-TNO	Netherlands
Auli	Niemi	Uppsala University	Sweden
Nicklas	Nordbäck	GTK	Finland
Karolina	Novak	INA Plc, Exploration and Production BD, SD&HSE Department	Croatia
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Niels	Poulsen	CO2GeoNet-GEUS	Denmark
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Anja	Reitz	GEOMAR	Germany
Trygve Utheim	Riis	The Research Council of Norway	Norway
Nick	Riley	CO2GeoNet-BGS	UK
Rita Sande	Rød	Norwegian Petroleum Directorate	Norway

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Bruno	Saftic	UNIZG-RGNF	Croatia
Constantin	Sava	GeoEcoMar	Romania
Kazbulat	Shogenov	TTU GI	Estonia
Alla	Shogenova	TTU GI	Estonia
Orlando Enrique	Silva	Fundación Ciudad de la Energía	Spain
Katarina	Simon	UNIZG-RGNF	Croatia
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Sasa	Smiljanic	AGES	Serbia
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6 Final remarks

In retrospect we can look back at a successful event and the intention is definitely to continue the tradition of this annual open forum. The exact dates for next years forum in 2013 will be announced soon on the CO2GeoNet and CGS Europe webpages. The theme will depend on developments over the coming months.

SEE YOU NEXT YEAR IN VENICE !!!

